



JOHN EDMONDSON HIGH SCHOOL

Assessment Notification

Faculty: Industrial Arts Course: Industrial Technology - Engineering Year: 9

Assessment Task: Design Folio and Practical

Assessment Weighting: 35% Due: Term 4 Week 5 Monday Date: 14/11/2024

Task Type: Hand in Task In Class Task Practical Task

Outcomes assessed (NESA)
IND5-4: Selects, justifies and uses a range of relevant and associated materials for specific applications
IND5-5: selects, interprets and applies a range of suitable communication techniques in the development, planning, production and presentation of ideas and projects
IND5-7: applies and transfers skills, processes and materials to a variety of contexts and projects
IND5-8: evaluates products in terms of functional, economic, aesthetic and environmental qualities and quality of construction
IND5-1: identifies, assesses, applies and manages the risks and WHS issues associated with the use of a range of tools, equipment, materials, processes and technologies
IND5-3: identifies, selects and uses a range of hand and machine tools, equipment and processes to produce quality practical projects
IND5-4: selects, justifies and uses a range of relevant and associated materials for specific applications
Task Description/Overview
Mechanisms – Downforce Racer Practical Assessment and Engineering Folio
Detailed Assessment Task Description
Complete the downforce racer booklet and the production of your downforce racer

Assessment Criteria		
Grade	Description	Mark Range
Outstanding (O)	The student has an extensive knowledge and understanding of the content and can readily apply this knowledge. In addition, the student has achieved a very high level of competence in the processes and skills and can apply these skills to new situations.	90-100
High (H)	The student has a thorough knowledge and understanding of the content and a high level of competence in the processes and skills. In addition, the student is able to apply this knowledge and these skills to most situations.	80-89
Sound (S)	The student has a sound knowledge and understanding of the content and has achieved a good level of competence in the processes and skills.	60-79
Basic (B)	The student has a basic knowledge and understanding of the content and has achieved a basic level of competence in the processes and skills.	30-59
Limited (L)	The student has an elementary knowledge and understanding in a few areas of the content and still required further work to achieve competence in the processes and skills.	0-29

Satisfactory completion of courses

A course has been satisfactorily completed when the student has:

- Followed the course developed/endorsed by the NSW Educational Standards Authority (NESA)
- Applied himself/herself with diligence and sustained effort to the set tasks and experiences provided in the course.
- Achieved some or all of the course outcomes

Year 9 Industrial Technology – Engineering

Downforce Racer Folio & Practical Production

Student Name: _____

		MARKS
Complete the 18 questions throughout the folio	<ul style="list-style-type: none">• Accuracy of responses• Sound explanation of research• Physics questions answered correctly <p>(40 marks)</p>	
Testing and recording results	<ul style="list-style-type: none">• Completeness of testing and recording <p>(30 marks)</p>	
Design Sketches	<ul style="list-style-type: none">• A range of quality ideas with annotations and different views• Ability to communicate graphically <p>(10 marks)</p>	
3D Modelling	<ul style="list-style-type: none">• Produces an accurate 3D model in Onshape <p>(30 marks)</p>	
Design of the downforce racer	<ul style="list-style-type: none">• Displays creativity and original thought <p>(10 marks)</p>	
Quality of construction	<ul style="list-style-type: none">• Accuracy in construction <p>(10 marks)</p>	
Evaluation questions	<ul style="list-style-type: none">• Reflective and constructive responses <p>(5 marks)</p>	
Folio	<ul style="list-style-type: none">• Work presented neat and accurate <p>(5 marks)</p>	